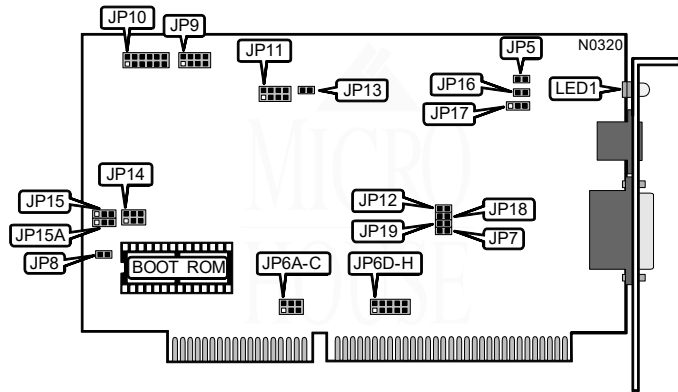


THE NETWORK INTERFACE CARD TECHNICAL GUIDE

COMPEX, INC.

UNIVERSAL SERIES ENET 16-TP (REV. D)

| | |
|---------------|--------------------------------|
| NIC Type | Ethernet |
| Transfer Rate | 10Mbps |
| Data Bus | 16-bit ISA |
| Topology | Star |
| | Linear Bus |
| Wiring Type | Unshielded twisted pair |
| | AUI transceiver via DB-15 port |
| Boot ROM | Available |



| DIAGNOSTIC LED(S) | | |
|--|--------|-----------------------------------|
| LED | Status | Condition |
| LED1 | On | Twisted pair connection is good |
| LED1 | Off | Twisted pair connection is broken |
| Note: LED1 indications are only valid when the cable type is twisted pair. | | |

| SEGMENT LENGTH | |
|--|--------|
| Length | JP4 |
| 185 Meters | Closed |
| 300 Meters | Open |
| Note: Each card on the network segment must have this option set the same. | |

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| ETHERNET VERSION SELECT | |
|--------------------------------|--------|
| Type | JP5 |
| iEthernet version 2, IEEE802.3 | Open |
| Ethernet version 1 | Closed |

| INTERRUPT REQUEST | | | | | | | | |
|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|
| IRQ | JP6A | JP6B | JP6C | JP6D | JP6E | JP6F | JP6G | JP6H |
| 2 | Open | Open | Open | Closed | Open | Open | Open | Open |
| i3 | Open | Open | Open | Open | Closed | Open | Open | Open |
| 4 | Open | Open | Open | Open | Open | Closed | Open | Open |
| 5 | Open | Open | Open | Open | Open | Open | Closed | Open |
| 7 | Open | Open | Open | Open | Open | Open | Open | Closed |
| 10 | Open | Open | Closed | Open | Open | Open | Open | Open |
| 11 | Open | Closed | Open | Open | Open | Open | Open | Open |
| 15 | Closed | Open | Open | Open | Open | Open | Open | Open |

| MEMORY WAIT STATE | |
|---|--------|
| Setting | JP7 |
| iSystem preset (usually 1WS 16-bit/4WS 8-bit) | Open |
| 0 wait states for 16-bit/2 wait states for 8-bit | Closed |
| Note: Use 0WS/2WS when using the NIC in a 6MHz or slower PC and on-board SRAM is 35ns type. | |

| BOOT ROM | |
|-----------|--------|
| Setting | JP8 |
| iDisabled | Open |
| Enabled | Closed |

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| I/O BASE ADDRESS | | | | |
|------------------|--------|--------|--------|--------|
| Address | JP9/1 | JP9/2 | JP9/3 | JP9/4 |
| 200h | Closed | Closed | Closed | Closed |
| 220h | Closed | Closed | Closed | Open |
| 240h | Closed | Closed | Open | Closed |
| 260h | Closed | Closed | Open | Open |
| i280h | Closed | Open | Closed | Closed |
| 2A0h | Closed | Open | Closed | Open |
| 2C0h | Closed | Open | Open | Closed |
| 2E0h | Closed | Open | Open | Open |
| 300h | Open | Closed | Closed | Closed |
| 320h | Open | Closed | Closed | Open |
| 340h | Open | Closed | Open | Closed |
| 360h | Open | Closed | Open | Open |
| 380h | Open | Open | Closed | Closed |
| 3A0h | Open | Open | Closed | Open |
| 3C0h | Open | Open | Open | Closed |
| 3E0h | Open | Open | Open | Open |

| BOOT ROM ADDRESS | | | | | | |
|------------------|--------|--------|--------|--------|--------|--------|
| Address | JP10/1 | JP10/2 | JP10/3 | JP10/4 | JP10/5 | JP10/6 |
| C0000h | Open | Closed | Closed | Closed | Closed | Closed |
| C2000h | Open | Closed | Closed | Closed | Closed | Open |
| C4000h | Open | Closed | Closed | Closed | Open | Closed |
| C6000h | Open | Closed | Closed | Closed | Open | Open |
| C8000h | Open | Closed | Closed | Open | Closed | Closed |
| CA000h | Open | Closed | Closed | Open | Closed | Open |
| CC000h | Open | Closed | Closed | Open | Open | Closed |
| CE000h | Open | Closed | Closed | Open | Open | Open |
| D0000h | Open | Closed | Open | Closed | Closed | Closed |
| iD2000h | Open | Closed | Open | Closed | Closed | Open |
| D4000h | Open | Closed | Open | Closed | Open | Closed |
| D6000h | Open | Closed | Open | Closed | Open | Open |
| D8000h | Open | Closed | Open | Open | Closed | Closed |
| DA000h | Open | Closed | Open | Open | Closed | Open |
| DC000h | Open | Closed | Open | Open | Open | Closed |
| DE000h | Open | Closed | Open | Open | Open | Open |

| CONNECTORS | |
|----------------------|----------|
| Purpose | Location |
| Network activity LED | JP13 |

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| DRIVER COMPATIBILITY MODE SELECT | | | | | | | |
|----------------------------------|-------------|---------|----------------|--------|--------|--------|--------|
| Mode | Onboard RAM | Driver | Expansion Slot | JP11/1 | JP11/2 | JP11/3 | JP11/4 |
| iWD CPX | 16KB | ENETCPX | 16-bit only | Open | Closed | Open | Closed |
| WD CPX | 16KB | WD8003 | 8/16-bit | Open | Closed | Open | Closed |
| WD CPX | 64KB | ENETCPX | 16-bit only | Open | Closed | Closed | Closed |
| WD CPX | 64KB | WD8003 | 8/16-bit | Open | Closed | Closed | Closed |
| WD-WDP | 16KB | WDPLUS | 16-bit only | Open | Open | Open | Closed |
| NE-NE1000 | 16KB | NE1000 | 8/16-bit | Closed | Open | Open | Open |
| NE-NE2000 | 16KB | NE2000 | 8/16-bit | Open | Open | Open | Open |

| I/O WAIT STATE | |
|--|--------|
| Wait State Select | |
| JP12 | |
| iSystem preset (usually 1WS 16-bit/4WS 8-bit) | Closed |
| 0 wait states for 16-bit/2 wait states for 8-bit | Open |

| BOOT ROM SIZE | | | | | |
|---------------|--------|--------|--------|-------------------|-------------------|
| Size | JP14/1 | JP14/2 | JP14/3 | JP15 | JP15A |
| i8KB | Open | Open | Open | Pins 1 & 2 Closed | Pins 1 & 2 Closed |
| 16KB | Closed | Open | Open | Pins 1 & 2 Closed | Pins 1 & 2 Closed |
| 32KB | Open | Closed | Open | Pins 1 & 2 Closed | Pins 2 & 3 Closed |
| 64KB | Open | Open | Closed | Pins 2 & 3 Closed | Pins 2 & 3 Closed |

| CABLE TYPE | |
|--------------------------------|--------|
| Type | |
| JP16 | |
| iUnshielded twisted pair | Closed |
| AUI transceiver via DB-15 port | Open |

| LINK INTEGRITY TEST | |
|---------------------|-------------------|
| Setting | |
| JP17 | |
| iEnabled | Pins 1 & 2 Closed |
| Disabled | Pins 2 & 3 Closed |

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| COMPUTER TYPE | |
|--------------------------------|--------|
| Type | JP18 |
| iAT | Closed |
| XT | Open |
| Note: See note regarding JP19. | |

| NE2000 MODE BUS MASTER COMPATIBILITY | |
|--|--------|
| Mode | JP19 |
| iNormal operation | Open |
| NE2000 mode with Bus Master Card present | Closed |
| Note: This jumper should only be closed when adapter is set in the NE2000 mode with a Bus Master card present, see 'Driver Compatibility Mode Select' table above. When JP19 is 'Closed', JP18 must be 'Open' regardless of whether the adapter is in an AT or XT. | |